PROJECT TITLE : PRODUCT RESEARCH

PERIOD COVERED : JANUARY 5 - 28, 1981

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ADSORBENTS

On the request of Product Development, a new type of ion exchange resin was investigated (1).

Name of resin : Duolite A7

Reference : D.E. 0.10.7031, batch 10

Manufacturer : Dia-Prosim, Vitry (France).

Characteristics

Specific surface : 114 m^2/g

Volume of mesopores : 0.12 cm^3/g

Volume of micropores : 0.12 cm^3/g

Water content : 55%

Retention of gas-phase components by Duolite A7

- No specific retention of organic components.
- Best efficiency for the volatile aldehydes acetaldehyde, propion aldehyde, acroleine and 3-methyl butanal (30-40% reduction).
- Low efficiency for the other organic smoke components (10-25% reduction).
- No retention of furanes (furane, 2-methyl furane, 2.5 - dimethyl furane) and isoprene.

CONTAMINATED MLK-UK

Samples of contaminated MLK-UK manufactured in Holland and packed with British soft labels were submitted by QC (2) for pin-pointing contamination. Since unpacked samples and samples packed with French labels were not contaminated those packed with British and French labels, including the inks and varnishes used, were analysed by GC^2 (3).

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Results of investigations (4)

- The components and quantity of compounds in French and British labels are identical.
- Inks and varnishes used for both labels are identical.
- No differences in chromatograms of the volatile portions of MLK-UK samples packed with French or British labels could be detected, neither by using headspace techniques nor by solvent extraction.

In addition to analysis, cigarettes from several contaminated packages were smoked. A peculiar taste was noticed immediately after the samples were received. However, after some days of storage there was no taste difference found between contaminated and normal MLK-UK samples.

REPORTS WRITTEN

- "The Analysis of the Gas Phase of Cigarette Smoke by Capillary Gas-Chromatography (GC^2)", Technical Report.
- "The Analysis of Triacetin in Filter Material by Capillary Gas-Chromatography (GC^2)", Analytical Method.

REFERENCES

1. Memo from B. Krasna to Y. Genoud, November 19, 1980.
2. Memo from F. Lopes to W. Fink, November 20, 1980.
3. Y. Genoud, PME Research Lab., Monthly Progress Report, November 1980.
4. Y. Genoud report to F. Lopes, January 22, 1981.

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